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APPLICATION NO. FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/533,847 11/30/2005	Fyodor Umov	8325-0034 (S34-US1)	7879
20855 7590 09/06/2007 ROBINS & PASTERNAK 1731 EMBARCADERO ROAD SUITE 230 PALO ALTO, CA 94303		EXAMINER	
		SISSON, BRADLEY L	
		ART UNIT	PAPER NUMBER
		1634	
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		09/06/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
Office Action Summary	10/533,847	URNOV ET AL.			
omec Action Gummary	Examiner	Art Unit			
The MAILING DATE of this communication a	Bradley L. Sisson	1634			
Period for Reply	opears on the cover sheet with the t	correspondence address			
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING I - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory perior - Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION .136(a). In no event, however, may a reply be tind d will apply and will expire SIX (6) MONTHS from the, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1)⊠ Responsive to communication(s) filed on <u>01 August 2007</u> .					
2a) This action is FINAL . 2b) ⊠ Th	This action is FINAL . 2b)⊠ This action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.			
Disposition of Claims					
 4) Claim(s) 1-15 is/are pending in the application 4a) Of the above claim(s) 1 and 6-15 is/are with 5) Claim(s) is/are allowed. 6) Claim(s) 2-5 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/ 	ithdrawn from consideration.				
Application Papers					
9)⊠ The specification is objected to by the Examin	er.				
10)☐ The drawing(s) filed on is/are: a)☐ ac	cepted or b) \square objected to by the E	Examiner.			
Applicant may not request that any objection to the	e drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E		• •			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureat * See the attached detailed Office action for a list	nts have been received. Its have been received in Application of the proceive	on No d in this National Stage			
Attachment(s)	A) [] [(DTO 412)			
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 12/12/2005 & 5/3/2007. 	4) Interview Summary (Paper No(s)/Mail Da 5) Notice of Informal Pa	te			

Application/Control Number: 10/533,847

Art Unit: 1634

DETAILED ACTION

Page 2

Election/Restrictions

1. Applicant's election with traverse of Group II, claims 2-5, in the reply filed on 01 August 2007, is acknowledged. The traversal is on the ground(s) that (1) US Patent 5,474,796 (Brennan) does not disclose an array of polynucleotides that has been isolated according to their being part of chromatin, and (2) the ISA did not identify Brennan as destroying novelty. This is not found persuasive because, first, the claims are drawn to a product, which in some elements, identified as a product-by-process. As set forth in the MPEP 2113 [R-1] Product-by-Process Claims:

PRODUCT-BY-PROCESS CLAIMS ARE NOT LIMITED TO THE MANIPULATIONS OF THE RECITED STEPS, ONLY THE STRUCTURE IMPLIED BY THE STEPS

"[E]ven though product-by-process claims are limited by and defined by the process, determination of patentability is based on the product itself. The patentability of a product does not depend on its method of production. If the product in the product-by-process claim is the same as or obvious from a product of the prior art, the claim is unpatentable even though the prior product was made by a different process." In re Thorpe, 777 F.2d 695, 698, 227 USPQ 964, 966 (Fed. Cir. 1985) (citations omitted) (Claim was directed to a novolac color developer. The process of making the developer was allowed. The difference between the inventive process and the prior art was the addition of metal oxide and carboxylic acid as separate ingredients instead of adding the more expensive prereacted metal carboxylate. The product-by-process claim was rejected because the end product, in both the prior art and the allowed process, ends up containing metal carboxylate. The fact that the metal carboxylate is not directly added, but is instead produced in-situ does not change the end product.).

The structure implied by the process steps should be considered when assessing the patentability of product-by-process claims over the prior art, especially where the product can only be defined by the process steps by which the product is made, or where the manufacturing process steps would be expected to impart distinctive structural characteristics to the final product. See, e.g., In re Garnero, 412 F.2d 276, 279, 162 USPQ 221, 223 (CCPA 1979) (holding "interbonded by interfusion" to limit structure of the claimed composite and noting that terms such as "welded," "intermixed," "ground in place," "press fitted," and "etched" are capable of construction as structural limitations.)<

Art Unit: 1634

ONCE A PRODUCT APPEARING TO BE SUBSTANTIALLY IDENTICAL IS FOUND AND A 35 U.S.C. 102 /103 REJECTION MADE, THE BURDEN SHIFTS TO THE APPLICANT TO SHOW AN UNOBVIOUS DIFFERENCE.

(Emphasis in the original.)

2. Brennan discloses an array that comprises all possible polynucleotides of a given length.

The claimed invention does not place any length requirement on the array members, only that

they be isolated from "cellular chromatin" that can come from virtually any life form. With

Brennan disclosing all possible polynucleotide sequences, by default, Brennan discloses the very

nucleic acids encompassed by the claims. No evidence has been presented to the contrary.

3. Secondly, as seen below, Brennan has been used to attack the novelty of the claimed

invention. Accordingly, the inventions are not so linked by a special technical feature so as to

have unity of invention.

4. The requirement is still deemed proper and is therefore made FINAL.

5. Claims 1 and 6-15 have been withdrawn from further consideration pursuant to 37 CFR

1.142(b), as being drawn to a nonelected invention, there being no allowable generic or linking

claim. Applicant timely traversed the restriction (election) requirement in the reply filed on 01

August 2007.

Specification

6. The disclosure is objected to because it contains an embedded hyperlink and/or other

form of browser-executable code. Applicant is required to delete the embedded hyperlink and/or

other form of browser-executable code. See MPEP § 608.01. See, for example, page 20, line 26,

of the specification.

Art Unit: 1634

Claim Rejections - 35 USC § 112

7. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

8. Claims 2-5 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as

the invention.

9. Claim 2 is indefinite with respect to what constitutes the metes and bounds of

"accessibility" as used to define nucleic acids. While a definition is found at page 24, last

paragraph, of the specification, said definition is less than clear. For example, the aspect of what

constitutes "bulk cellular DNA" is not clear. Further, it is not clear how a characterization of

DNA affects or impacts the accessibility of RNA, be it mRNA, tRNA, rRNA, etc.

Claim Rejections - 35 USC § 102

10. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 11. Claims 2-5 are rejected under 35 U.S.C. 102(b) as being anticipated by US Patent 5,474,796 (Brennan).
- 12. Brennan, column 9, discloses an array of oligonucleotides that comprises all possible 10-mers. Each of these oligonucleotides occupies a distinct address on the support. Such a showing is deemed to meet a limitation of claims 2-5.

Art Unit: 1634

13. While claims 2-5 have been drafted in terms of a product-by-process, there is not structural difference from the polynucleotides of the array of Brennan from that claimed instantly. Accordingly, and in the absence of convincing evidence to the contrary, claims 2-5 are rejected under 35 U.S.C. 102(b) as being anticipated by US Patent 5,474,796 (Brennan).

Conclusion

- 14. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bradley L. Sisson whose telephone number is (571) 272-0751. The examiner can normally be reached on 6:30 a.m. to 5 p.m., Monday through Thursday.
- 15. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ram Shukla can be reached on (571) 272-0735. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.
- 16. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

Art Unit: 1634

like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Bradley L. Sisson/ Primary Examiner Art Unit 1634

BLS